

**Curriculum for BEng(Hons) in Aviation Engineering and  
BEng(Hons) in Air Transport Engineering (Senior Year Intakes)**

**Credit Requirements for Graduation**

Normally 64 (plus 4 IC training credits)\*

\* Since students may be required to meet specific requirements at admission, the credits required for graduation will vary according to the academic background of students.

**Study Pattern of BEng(Hons) in Aviation Engineering (Senior Year Intakes)**

<b>Year 1 (32 + 4 training credits)</b>	
<b>Semester 1</b>	<b>Semester 2</b>
AAE3002 Aircraft Structures and Materials	AAE3001 Fundamentals of Aerodynamics
AAE3004 Dynamical Systems and Control	AAE3003 Aircraft Propulsion Systems
AAE3008 Fundamental Thermal-fluid Science	AAE4006 Flight Mechanics and Control Systems
ELC3531 Professional Communication in English for Engineering Students (2 credits)	AAE4301 Avionics Systems
Cluster-Area Requirement I ^	ENG3004 Society and the Engineer
Service Learning ^	AAE3102 / IC380 Integrated Aviation Engineering Project (4 training credits)
AAE2102 / IC2133 Aircraft Manufacturing and Maintenance Fundamentals (4 training credits) [for HKAR-147 training students]	
<b>Year 2 (32 credits)</b>	
<b>Semester 1</b>	<b>Semester 2</b>
AAE4004 Airworthiness and Regulations	ENG4001 Project Management
CLC3243P Chinese Communication for Aviation (2 credits)	AF3625 Engineering Economics
Cluster-Area Requirement II ^	Elective Subject (3)
Elective Subject (1)	Elective Subject (4)
Elective Subject (2)	
AAE4002 Capstone Project (6 credits)	

^ The study pattern for these General University Requirement (GUR) subjects is indicative only. Students may take the subjects at their own schedule.

**Study Pattern of BEng(Hons) in Air Transport Engineering (Senior Year Intakes)**

<b>Year 1 (32 + 4 training credits)</b>	
<b>Semester 1</b>	<b>Semester 2</b>
AAE3012 Air Traffic Management and Airport Operations	AAE3011 Aircraft Performance and Flight Management
AAE3009 Operations Research and Computational Analytics in Air Transport Operations	AAE3006 Safety, Reliability and Compliance
AAE4903 Human Factors in Aviation	AAE4301 Avionics Systems
ELC3531 Professional Communication in English for Engineering Students (2 credits)	AF3625 Engineering Economics
Cluster-Area Requirement I ^	ENG3004 Society and the Engineer
Service Learning ^	AAE3102 / IC380 Integrated Aviation Engineering Project (4 training credits)
AAE2102 / IC2133 Aircraft Manufacturing and Maintenance Fundamentals (4 training credits) [for HKAR-147 training students]	
<b>Year 2 (32 credits)</b>	
<b>Semester 1</b>	<b>Semester 2</b>
AAE4004 Airworthiness and Regulation	AAE3010 Airline Operations
CLC3243P Chinese Communication for Aviation (2 credits)	ENG4001 Project Management
Elective Subject (1)	Elective Subject (3)
Elective Subject (2)	Elective Subject (4)
Cluster-Area Requirement II ^	
AAE4012 Capstone Project (6 credits)	

^ The study pattern for these General University Requirement (GUR) subjects is indicative only. Students may take the subjects at their own schedule.

## General University Requirements (GUR) Framework of Senior Year Intakes Student

Areas	Credits
<ul style="list-style-type: none"> <li>▪ Language and Communication Requirements (LCR)</li> </ul>	see <i>Note 1</i>
<ul style="list-style-type: none"> <li>▪ Service-Learning</li> </ul>	3
<ul style="list-style-type: none"> <li>▪ Cluster-Area Requirements (CAR)               <ul style="list-style-type: none"> <li>○ 3 credits from CAR (M) “Chinese History and Culture”</li> <li>○ 3 credits from a specially-designed CAR (A) “Human Nature, Relations and Development” – English language with English Reading and Writing Requirements</li> <li>○ Need to fulfil the English and Chinese reading and writing requirements</li> </ul> </li> </ul>	6
<ul style="list-style-type: none"> <li>▪ Essential Components of General Education (E-modules)               <ol style="list-style-type: none"> <li>1. Academic Integrity</li> <li>2. Artificial Intelligence and Data Analytics</li> <li>3. Innovation and Entrepreneurship</li> <li>4. National Education</li> </ol> </li> </ul>	Non-credit-bearing

*Note 1: Students not meeting the equivalent standard of the Undergraduate Degree LCR (based on their previous studies in Associate Degree/Higher Diploma programmes and their academic performance) will be required to take degree LCR subjects on top of the normal curriculum requirement.*